

## Tennessee Pollution Prevention Partnership Success Story



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## Water Recycling System Saves Resources

### The Member

Frito-Lay, Inc., Fayetteville, a PepsiCo Company, is a production facility located in Lincoln County, Fayetteville, TN. This manufacturing facility has been in operation since 1997 producing potato and corn chip snacks. The Fayetteville facility is a local employer of choice and has 450 highly trained team members who work diligently everyday to deliver quality products to our customers. Employee skills are constantly being upgraded and all are encouraged to participate in making the company better and stronger. Frito-Lay is committed to conducting its business operations in a manner that is consistent with concern and respect for our fragile environment. Toward this end, operational decisions reflect our strong belief in sound environmental management and environmental conservation as we faithfully seek to comply with all federal, state, and local environmental laws, rules, and regulations. Frito-Lay will work toward continual improvement of our Environmental Management System, with the goal of improved environmental performance through the prevention of pollution and the minimization of waste and emissions from our operations.

Frito Lay is continually working on new resource conservation projects. This is done with a wide range of employee involvement with the Resource Conservation program. Regardless of the size of the projects, they are all taken seriously because small conservations add up to make a huge impact on reducing our resource usages.

### The Story

Frito-Lay uses water for producing potato and corn chip snacks. Potato chip processing requires the use of water to clean and transport the potatoes before slicing them to make chips. The Fayetteville facility developed a project to reconfigure the water system piping to reduce water usage. Prior to this all the processing water from the facility was collected, treated, and sent to the land application site. Installing the water recycling system allows the reuse of flume water that transports the raw potatoes to their processing destination. The recycled flume water is mixed with incoming fresh water. The recycled flume/fresh water blend is treated prior to use thus reducing the amount of fresh (city) water used by the plant.

### The Success

Frito-Lay has greatly reduced its water usage from the city of Fayetteville by installing the water recycling system. The new system also conserves the city's raw water source and reduces the amount of water pumped to the land application site. The water recycling system also saves electrical energy because the land application pumps do not run as often.

### The Pollution Prevented

The total annual water savings for 2007 was over 14 million gallons (equivalent to the annual water usage of 97 households) along with a savings greater than \$20,000. The water reduction from this project is key to helping the plant achieve its goal of 1.1 gallons used per pound of product produced.

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